## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: Source:	10/623, 808
Date Processed by STIC:	1FWO 02/08/2006

# ENTERED

#### RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

INPUT SET: S30752.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

```
SEQUENCE LISTING
        2
                   General Information:
        3
            (1)
        5
                 (i) APPLICANT: Alderson, Mark R.
                                 Goodwin, Raymond G.
        6
        7
                                 Smith, Craig A.
        8
                (ii) TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand
        9
       10
               (iii) NUMBER OF SEQUENCES: 18
       11
       12
                (iv) CORRESPONDENCE ADDRESS:
       13
       14
                      (A) ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
                      (B) STREET: 51 University Street
       15
       16
                      (C) CITY: Seattle
       17
                      (D) STATE: Washington
                      (E) COUNTRY: US
       18
                      (F) ZIP: 98101
       19
       20
                 (v) COMPUTER READABLE FORM:
       21
                      (A) MEDIUM TYPE: Floppy disk
       22
                      (B) COMPUTER: Apple Power Macintosh
       23
                      (C) OPERATING SYSTEM: Apple 7.5.3
       24
                      (D) SOFTWARE: Microsoft Word, Version #6.0.1
       25
       26
       27
                (vi) CURRENT APPLICATION DATA:
       28
                      (A) APPLICATION NUMBER: US/10/623,808
                      (B) FILING DATE: 22-JUL-2003
       29
       30
                      (C) CLASSIFICATION: 435
-->
       31
       32
                 (vii) PRIOR APPLICATION DATA:
                      (A) APPLICATION NUMBER: US/08/236, 918
       33
                      (B) FILING DATE: 06-May-1994
       34
                      (C) CLASSIFICATION: 435
       35
       36
                (vii) PRIOR APPLICATION DATA:
       37
                      (A) APPLICATION NUMBER: US 08/060,843
       38
                      (B) FILING DATE: 07-May-1993
       39
       40
                      (C) CLASSIFICATION: 435
-->
       41
       42
       43
              (viii) ATTORNEY/AGENT INFORMATION:
       44
                      (A) NAME: Anderson, Kathryn A.
       45
                      (B) REGISTRATION NUMBER: 32,172
                      (C) REFERENCE/DOCKET NUMBER: 2801-B
       46
```

### RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

		••••									
47 48 49 50 51	<pre>(ix) TELECOMMUNICATION INFORMATION:     (A) TELEPHONE: (206) 587-0430     (B) TELEFAX: (206) 233-0644</pre>										
52 53	(2) INFORMATION FOR SEQ ID NO:1:										
54 55 56 57 58 59 60	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 1254 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>										
61 62	(ii) MOLECULE TYPE: cDNA to mRNA										
63 64	(iii) HYPOTHETICAL: NO										
65 66 67	(iv) ANTI-SENSE: NO										
68 69 70	<pre>(vii) IMMEDIATE SOURCE:     (B) CLONE: murine 4-1BB-L</pre>										
71 72 73 74 75	(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 53979										
76 77	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:										
78 79 80 81	AGCCTATAAA GCACGGGCAC TGGCGGGAGA CGTGCACTGA CCC	SACCGTGG TA ATG 55  Met  1									
82 83 84 85	GAC CAG CAC ACA CTT GAT GTG GAG GAT ACC GCG GAT Asp Gln His Thr Leu Asp Val Glu Asp Thr Ala Asp 5 10										
86 87 88 89	GCA GGT ACT TCG TGC CCC TCG GAT GCG GCG CTC CTC Ala Gly Thr Ser Cys Pro Ser Asp Ala Ala Leu Leu 20 25										
90 91 92 93	CTC CTC GCG GAC GCT GCG CTC CTC TCA GAT ACT GTC Leu Leu Ala Asp Ala Ala Leu Leu Ser Asp Thr Val 35 40 45	Arg Pro Thr Asn									
94 95 96 97	GCC GCG CTC CCC ACG GAT GCT GCC TAC CCT GCG GTT Ala Ala Leu Pro Thr Asp Ala Ala Tyr Pro Ala Val 50 55 60										
98 99	CGC GAG GCC GCG TGG CCG CCT GCA CTG AAC TTC TGT Arg Glu Ala Ala Trp Pro Pro Ala Leu Asn Phe Cys										

#### RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

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100			70				75		IN	<i>PUT</i> 80	SET: S	S30752.raw
101 102 103 104			CTA Leu									343
105 106 107 108			TTC Phe									391
109 110 111 112			AAC Asn									439
113 114 115 116 117			CAC His									487
117 118 119 120 121			AAG Lys 150									535
122 123 124 125			TGG Trp									583
126 127 128 129			AGG Arg									631
130 131 132 133			TAC Tyr									679
134 135 136 137			GGC Gly									727
138 139 140 141	 	 	CAG Gln 230	_	-							775
142 143 144 145			TGC Cys									823
146 147 148 149			CTC Leu									871
150 151 152			CAT His									919

205

#### RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

		1711271		011 05/10/1	023,000	Thate. 15
					INPUT	SET: S30752.raw
153						
154	TCT TAT CCC	AAC ACC ACC	AGC TTT GG	A CTC TTT C	CTT GTG AAA CCC	GAC 967
155					Leu Val Lys Pro	
156	290	295		300	•	305
157						
158	AAC CCA TGG	GAA TGAGAACT	TAT CCTTCTT	GTG ACTCCTA	AGTT GCTAAGTCCT	1019
159	Asn Pro Trp		0011011			
160						
161						
162	СААССТССТА Т	יכייייאדיכה הנ	TTCTGAGCA G	CCCTCCCTT C	CATGACTTT CTCT	GTCTT 1079
163		.0111111100 0	01010110011			
164	таастесаст т	ተርርጥልጥጥልጥ <b>ተ</b> ር	тсассата с	CTCAGACAA	SACTTTATAT AATTO	CACTAG 1139
165	mineredict i			,010110110111		
166	<b>አ</b> ሞአርር <b>አ</b> ሞሞአር ፕ	יאאריהכריה הנ	ברמככדככד מ	CATAAAAA Z	AATTTCTAA ATCAA	AAGTTT 1199
167	71171007117710 1	Transcructo o	derice recer is	.0		1.0111 1133
168	ד ידמידידמידמי	ומ ממדמיימיממי	ል ተይልልተርተ <i>ር</i>	יייייייייייייייייייייייייייייייייייייי	AAAA AAAAAAA	1254
169	MIMITIMIMI I			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		201
170						
171	(2) TNFORMAT	TION FOR SEQ	TD NO.2.			
172	(2) 1141 ORTH	TON TON BEQ	10 110.2.			
173	(i) 9	SEQUENCE CHAI	2 ACTERTSTTC	'S •		
174	(1)	(A) LENGTH:				
175		(B) TYPE: a		acias		
175 176		(D) TOPOLOG				
177		(D) TOPOLOG	Ji. Illical			
178	/dd\ N	OLECULE TYPE	Z. protein			
178 179	(11)	OLECOLE IIF	s. procein			
180	/xi\ 0	SEQUENCE DESC	יים דייים דריי	EO ID NO.2.	•	
181	(XI) S	SEQUENCE DESC	CRIPTION: 3	SEQ ID NO.2:	•	
182	Met Acn Cln	Hic Thr Leu	Aca Val Gl	u Aco Thr I	Ala Asp Ala Arg	Hic
183	1	5	Asp var Gr	10 ASP 1111 P	15	1113
184	1	5		10	13	
185	Dro Ala Clar	The Cor Cuc	Dro Cer Ac	יה אות הוא מי	Leu Leu Arg Asp	Thr
186	PIO AIA GIY	20		sp Ala Ala I 25	30	1111
187		20	2	.5	30	
	Clar Lon Lon	712 7am 712	Ala tou to	u Cor Ago T	Thr Val Arg Pro	Thr
188	•	Ala ASP Ala	40	u ser Asp i	45	1111
189	35		40		45	
190	n n1- n1-	T D Mb	n nl- nl	o Maria Dago 7	\]_ \[ \]_ \]_ \[ \]_ \	7
191		Leu Pro IIII		a lyr Pro F	Ala Val Asn Val	Arg
192	50		55		60	
193		71. 71. m	D D 3.1		No. 0	77.5 ±
194		_	Pro Pro Al		he Cys Ser Arg	
195	65	70		75		80
196	D	m 03 -	**-1 *1 -	**-1 * -		n 1 -
197	rro Lys Leu		vai Ala Le		Leu Leu Ile	ATA
198		85		90	95	
199			_,	~3 <del>-</del> -		m) .
200	Ala Cys Val		_		Arg Pro Ala Leu	Tnr
201		100	10	15	110	
202					. <u>.</u>	<b>~</b> 3
203		Ser Pro Asn	_	ır Arg Glu <i>F</i>	Asn Asn Ala Asp	Gin
204	115		120		125	
205						

#### RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

														IN	<b>IPUT</b>	SET: S
206 207 208	Val	Thr 130	Pro	Val	Ser	His	Ile 135	Gly	Cys	Pro	Asn	Thr 140	Thr	Gln	Gln	Gly
209 210 211	Ser 145	Pro	Val	Phe	Ala	Lys 150	Leu	Leu	Ala	Lys	Asn 155	Gln	Ala	Ser	Leu	Cys 160
212 213 214	Asn	Thr	Thr	Leu	Asn 165	Trp	His	Ser	Gln	Asp 170	Gly	Ala	Gly	Ser	Ser 175	Tyr
215 216 217	Leu	Ser	Gln	Gly 180	Leu	Arg	Tyr	Glu	Glu 185	Asp	Lys	Lys	Glu	Leu 190	Val	Val
218 219 220	Asp	Ser	Pro 195	Gly	Leu	Tyr	Tyr	Val 200	Phe	Leu	Glu	Leu	Lys 205	Leu	Ser	Pro
221 222 223	Thr	Phe 210	Thr	Asn	Thr	Gly	His 215	Lys	Val	Gln	Gly	Trp 220	Val	Ser	Leu	Val
224 225 226	Leu 225	Gln	Ala	Lys	Pro	Gln 230	Val	Asp	Asp	Phe	Asp 235	Asn	Leu	Ala	Leu	Thr 240
227 228 229	Val	Glu	Leu	Phe	Pro 245	Cys	Ser	Met	Glu	Asn 250	Lys	Leu	Val	Asp	Arg 255	Ser
230 231 232	Trp	Ser	Gln	Leu 260	Leu	Leu	Leu	Lys	Ala 265	Gly	His	Arg	Leu	Ser 270	Val	Gly
233 234	Leu	Arg	Ala 275	Tyr	Leu	His	Gly	Ala 280	Gln	Asp	Ala	Tyr	Arg 285	Asp	Trp	Glu
235 236 237	Leu	Ser 290	Tyr	Pro	Asn	Thr	Thr 295	Ser	Phe	Gly	Leu	Phe 300	Leu	Val	Lys	Pro
238 239 240	Asp 305	Asn	Pro	Trp	Glu											
241 242	(2)	INFO	ORMA'	rion	FOR	SEQ	ID 1	NO:3	:							
243 244 245 246 247 248	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 1618 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>															
249 250		(ii)	) MO	LECU	LE T	YPE:	CDN	A to	mRN	A						
251 252		(iii)	HY!	POTH	ETIC	AL: 1	10									
253 254 255		(iv	AN'	ri-s	ENSE	: NO										
256 257 258		(vii)				SOUR(		4 - 1BI	3-L(	7A)						

#### SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

Line	Error	Original Text
30	Wrong Classification	(C) CLASSIFICATION:435
35	Wrong Classification	(C) CLASSIFICATION:435
40	Wrong Classification	(C) CLASSIFICATION:435

#### SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

<< THERE ARE NO ITEMS MISSING >>

#### SEQUENCE CORRECTION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006

TIME: 13:06:18

INPUT SET: S30752.raw

Line

Original Text

Corrected Text

#### SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

Line	Error	Original Text
30	Wrong Classification	(C) CLASSIFICATION:435
35	Wrong Classification	(C) CLASSIFICATION:435
40	Wrong Classification	(C) CLASSIFICATION:435

#### SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

<< THERE ARE NO ITEMS MISSING >>

#### SEQUENCE CORRECTION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

Line

Original Text

Corrected Text